Unit Code: J248/04

Qual Name: GCSE Chemistry A(Gateway Science)
Qual Title: C4-C6 and C7 Higher

| Question Set | Q. No | Total Marks | АО | Spec Ref. | Topic | Question Subject, If required | Additional Notes/Comments | Maths | Practical Assessment |
|--------------|-------|----------------|-----|--------------|--|-------------------------------|---------------------------|-------|-------------------------|
| 1 | 1 | 1 | AO1 | 4.2f | 4.2 Identifying the products of chemical reactions | | | | |
| 1 | 2 | 1 | AO1 | 4.2b | 4.2 Identifying the products of chemical reactions | | | | Υ |
| 1 | 3 | 1 | AO1 | 4.2g | 4.2 Identifying the products of chemical reactions | | | | |
| 1 | 4 | 1 | AO1 | 4.2g | 4.2 Identifying the products of chemical reactions | | | Υ | |
| 1 | 5 | 1 | AO1 | 4.1c | 4.1 Predicting chemical reactions | | | | |
| 1 | 6 | 1 | AO2 | 4.1d | 4.1 Predicting chemical reactions | | | | |
| 1 | 7 | 1 | AO1 | 4.1b | 4.1 Predicting chemical reactions | | | | |
| 1 | 8 | 1 | AO1 | 4.2f | 4.2 Identifying the products of chemical reactions | | | | |
| 1 | 9 | 1 | AO1 | 4.2d | 4.2 Identifying the products of chemical reactions | | | | |
| 1 | 10 | 1 | AO1 | 4.1a | 4.1 Predicting chemical reactions | | | | |
| 1 | 11 | 1 | AO1 | 4.2b | 4.2 Identifying the products of chemical reactions | | | | |
| 1 | 12 | 1 | AO2 | 4.1e | 4.1 Predicting chemical reactions | | | | |
| 2 | 1 | 1 | AO1 | 5.1i | 5.1 Monitoring chemical reactions | | | | |
| 2 | 2 | 1 | AO1 | 5.3b | 5.3 Equilibria | | | | |
| 2 | 3 | 1 | AO1 | 5.2f | 5.2 Controlling reactions | | | | Y |
| 2 | 4 | 1 | AO1 | 5.1f | 5.1 Monitoring chemical reactions | | | | |
| 2 | 5 | 1 | AO1 | 5.3b | 5.3 Equilibria | | | | |
| 2 | 6 | 1 | AO2 | 5.3c | 5.3 Equilibria | | | | |
| 2 | 7 | 1 | AO2 | 5.1a | 5.1 Monitoring chemical reactions | | | Υ | |
| 2 | 8 | 1 | AO2 | 5.1g | 5.1 Monitoring chemical reactions | | | | |
| 2 | 9 | 1 | AO2 | 5.1j | 5.1 Monitoring chemical reactions | | | Υ | |
| 2 | 10 | 1 | AO2 | 5.1e | 5.1 Monitoring chemical reactions | | | Υ | |
| 2 | 11 | 1 | AO2 | 5.2b | 5.2 Controlling reactions | | | Υ | |
| 2 | 12 | 1 | AO2 | 5.2e | 5.2 Controlling reactions | | | | Υ |
| 2 | 13 | 1 | AO2 | 5.1a | 5.1 Monitoring chemical reactions | | | Υ | Υ |

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|--------------|-------|----------------|--------------|---------------|---|--|---|-------|-------------------------|
| 3 | 1 | 1 | AO2 | 6.3a | 6.3 Interpreting and interacting with earth systems | | | Υ | |
| 3 | 2 | 1 | AO1 | 6.3c | 6.3 Interpreting and interacting with earth systems | | | | |
| 3 | 3 | 1 | AO1 | 6.2b | 6.2 Organic chemistry | | | | |
| 3 | 4 | 1 | AO1 | 6.2q | 6.2 Organic chemistry | | | | Υ |
| 3 | 5 | 1 | AO1 | 6.2e | 6.2 Organic chemistry | | | | |
| 3 | 6 | 1 | AO1 | 6.1c | 6.1 Improving processes and products | | | | |
| 3 | 7 | 1 | AO1 | 6.3c | 6.3 Interpreting and interacting with earth systems | | | | |
| 3 | 8 | 1 | AO1 | 6.2e | 6.2 Organic chemistry | | | | |
| 3 | 10 | 1 | AO1 | 6.3b | 6.3 Interpreting and interacting with earth systems | | | | |
| 3 | 11 | 1 | AO2 | 6.1s | 6.1 Improving processes and products | | | | |
| 3 | 12 | 1 | AO1 | 6.1b | 6.1 Improving processes and products | | | | |
| 3 | 13 | 1 | AO1 | 6.2q | 6.2 Organic chemistry | | | | |
| 3 | 14 | 1 | AO1 | 6.1c | 6.1 Improving processes and products | | | | |
| 3 | 15 | 1 | AO2 | 6.20 | 6.2 Organic chemistry | | Please note: images are not to scale as they may vary in colour, density, shade and size when reproduced using different printers and photocopiers. | Y | |
| 3 | 16 | 1 | AO2 | 6.2a | 6.2 Organic chemistry | | | | |
| 3 | 17 | 1 | AO1 | 6.3a | 6.3 Interpreting and interacting with earth systems | | | | |
| 3 | 18 | 1 | AO1 | 6.2c | 6.2 Organic chemistry | | | | |
| 3 | 19 | 1 | AO2 | 6.2c | 6.2 Organic chemistry | | | | |
| 3 | 20 | 1 | AO1 | 6.2e | 6.2 Organic chemistry | | | | |
| 4 | 1a | 4 | AO3 | 6.1s | 6.1 Improving processes and products | This question has a focus on materials, with links to nanoparticles and catalysis. | | | |
| 4 | 1b | 1 | AO1 | 6.2g | 6.2 Organic chemistry | This question has a focus on materials, with links to nanoparticles and catalysis. | | | |
| 4 | 1ci | 3 | AO2 | 5.2e, 2.3g | 5.2 Controlling reactions | This question has a focus on materials, with links to nanoparticles and catalysis. | | Y | |
| 4 | 1cii | 3 | AO1 & AO2 | 5.2f | 5.2 Controlling reactions | This question has a focus on materials, with links to nanoparticles and catalysis. | | | |

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|--------------|-------|----------------|--------------|---------------|---|--|---------------------------|-------|-------------------------|
| 5 | 1a | 3 | AO3 | 6.3d | 6.3 Interpreting and interacting with earth systems | This question has a focus on global warming and climate change. | | Y | |
| 5 | 1b | 2 | AO3 | 6.3d | 6.3 Interpreting and interacting with earth systems | This question has a focus on global warming and climate change. | | | |
| 5 | 1ci | 1 | AO1 | 6.3e | 6.3 Interpreting and interacting with earth systems | This question has a focus on global warming and climate change. | | | |
| 5 | 1cii | 1 | AO1 | 6.3e | 6.3 Interpreting and interacting with earth systems | This question has a focus on global warming and climate change. | | | |
| 6 | 1a | 2 | AO2 | 6.1g, 3.1c | 6.1 Improving processes and products | This question has a focus on the Haber process and the industrial and laboratory manufacture of fertilisers. | | | |
| 6 | 1bi | 1 | AO1 | 5.2c | 5.2 Controlling reactions | This question has a focus on the Haber process and the industrial and laboratory manufacture of fertilisers. | | | |
| 6 | 1bii | 2 | AO2 | 5.3c | 5.3 Equilibria | This question has a focus on the Haber process and the industrial and laboratory manufacture of fertilisers. | | | |
| 6 | 1c | 2 | AO2 | 5.3c | 5.3 Equilibria | This question has a focus on the Haber process and the industrial and laboratory manufacture of fertilisers. | | | |
| 6 | 1di | 2 | AO3 | 6.1h | 6.1 Improving processes and products | This question has a focus on the Haber process and the industrial and laboratory manufacture of fertilisers. | | | Y |
| 6 | 1dii | 1 | AO1 | 6.1h | 6.1 Improving processes and products | This question has a focus on the Haber process and the industrial and laboratory manufacture of fertilisers. | | | |
| 7 | 1a | 2 | AO2 | 4.1e, 3.1b | 4.1 Predicting chemical reactions | This question has a focus on rates of reaction and tests mathematical skills. | | | Υ |
| 7 | 1b | 6 | AO2 & AO3 | 5.2d | 5.2 Controlling reactions | This question has a focus on rates of reaction and tests mathematical skills. | LoR Question | Y | Υ |

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|--------------|-------|----------------|----------------------|---------------|-----------------------------------|---|---------------------------|-------|-------------------------|
| 7 | 1c | 3 | AO2 | 5.2c, 5.2d | 5.2 Controlling reactions | This question has a focus on rates of reaction and tests mathematical skills. | | Υ | Y |
| 7 | 1d | 3 | AO1 & AO2 | 5.2c, 5.2d | 5.2 Controlling reactions | This question has a focus on rates of reaction and tests mathematical skills. | | Υ | Y |
| 8 | 1a | 2 | AO1 | 4.1a | 4.1 Predicting chemical reactions | This question has a focus on the properties of elements in Groups 1, 7 and 0. | | | Y |
| 8 | 1b | 2 | AO1 | 4.1e, 2.2h | 4.1 Predicting chemical reactions | This question has a focus on the properties of elements in Groups 1, 7 and 0. | | | |
| 8 | 1c | 3 | AO1 | 4.1a | 4.1 Predicting chemical reactions | This question has a focus on the properties of elements in Groups 1, 7 and 0. | | | |
| 8 | 1d | 2 | AO1 | 4.1b, 2.3f | 4.1 Predicting chemical reactions | This question has a focus on the properties of elements in Groups 1, 7 and 0. | | | |
| 8 | 1e | 2 | AO1 | 4.1b, 2.2h | 4.1 Predicting chemical reactions | This question has a focus on the properties of elements in Groups 1, 7 and 0. | | | |
| 9 | 1a | 2 | AO3 | 6.2c | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | | Υ |
| 9 | 1b | 4 | AO1, AO2 & AO3 | 6.2e | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | | |
| 9 | 1ci | 1 | AO1 | 6.2h | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | | |
| 9 | 1cii | 1 | AO1 | 6.2h | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | | |
| 9 | 1di | 1 | AO1 | 6.2a | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | | |
| 9 | 1dii | 2 | AO2 | 6.2b | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | | |
| 10 | 1a | 2 | AO2 | 5.1e | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations. | | Υ | Y |
| 10 | 1bi | 3 | AO2 | 5.1c | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations. | | Υ | Y |
| 10 | 1bii | 2 | AO2 | 5.1c | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations. | | Υ | Y |
| 10 | 1c | 4 | AO2 | 5.1c | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations. | | Υ | Y |

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|--------------|-------|----------------|--------------|------------------------|---|---|---------------------------|-------|-------------------------|
| 11 | 1a | 3 | AO3 | 6.11 | 6.1 Improving processes and products | This question has a focus on life- cycle assessments & fractional distillation; it tests analytical skills. | | | |
| 11 | 1b | 3 | AO1 | 6.2k | 6.2 Organic chemistry | This question has a focus on life- cycle assessments & fractional distillation; it tests analytical skills. | | | |
| 11 | 1c | 2 | AO1 & AO3 | 6.2k | 6.2 Organic chemistry | This question has a focus on life- cycle assessments & fractional distillation; it tests analytical skills. | | | |
| 11 | 1d | 3 | AO3 | 6.2q | 6.2 Organic chemistry | This question has a focus on life- cycle assessments & fractional distillation; it tests analytical skills. | | | |
| 12 | 1a | 3 | AO2 | 6.2a | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | Υ | |
| 12 | 1bi | 1 | AO2 | 6.2a | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | Υ | |
| 12 | 1bii | 1 | AO2 | 6.2b | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | Υ | |
| 12 | 1c | 1 | AO1 | 6.2a | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | | |
| 12 | 1d | 1 | AO2 | 6.2c | 6.2 Organic chemistry | This question has a focus on compounds of carbon. | | | |
| 13 | 1a | 2 | AO2 | 5.2c, 3.1b | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | Υ |
| 13 | 1bi | 1 | AO3 | 5.2b | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | Υ | Υ |
| 13 | 1bii | 3 | AO1 & AO2 | 5.2b | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | Υ | Υ |
| 13 | 1c | 4 | AO2 | 5.2d | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | Υ |
| 13 | 1di | 1 | AO1 | 5.2h, 3.2b | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | |
| 13 | 1dii | 1 | AO1 | 5.2h, 3.2b | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | |
| 14 | 1 | 6 | AO2 & AO3 | 5.3a, 5.3c, 6.1f | 5.3 Equilibria & 6.1 Improving processes and products | This question has a focus on how the conditions chosen for an industrial process relate to equilibrium position. | LoR Question | | |
| 15 | 1a | 4 | AO3 | 5.1b | 5.1 Monitoring chemical reactions | This question has a focus on the technique of titration and test mathematical skills. | | | Y |
| 15 | 1b | 1 | AO3 | 5.1b | 5.1 Monitoring chemical reactions | This question has a focus on the technique of titration and test mathematical skills. | | | Y |

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|--------------|-------|----------------|--------------|--------------|-----------------------------------|--|---------------------------|-------|-------------------------|
| 15 | 1ci | 1 | AO2 | 5.1b | 5.1 Monitoring chemical reactions | This question has a focus on the technique of titration and test mathematical skills. | | Y | Υ |
| 15 | 1cii | 1 | AO2 | 5.1b | 5.1 Monitoring chemical reactions | This question has a focus on the technique of titration and test mathematical skills. | | Y | Y |
| 15 | 1di | 1 | AO3 | 5.1b | 5.1 Monitoring chemical reactions | This question has a focus on the technique of titration and test mathematical skills. | | | Y |
| 15 | 1dii | 4 | AO2 | 5.1c | 5.1 Monitoring chemical reactions | This question has a focus on the technique of titration and test mathematical skills. | | Υ | Y |
| 16 | 1ai | 1 | AO2 | 5.1a | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations; concentration, moles, has volume & atom economy and tests mathematical skills. | | Y | Y |
| 16 | 1aii | 1 | AO2 | 5.1a | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations; concentration, moles, has volume & atom economy and tests mathematical skills. | | Y | Y |
| 16 | 1bi | 2 | AO1 & AO2 | 5.1d | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations; concentration, moles, has volume & atom economy and tests mathematical skills. | | Y | Y |
| 16 | 1bii | 2 | AO1 & AO2 | 5.1e | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations; concentration, moles, has volume & atom economy and tests mathematical skills. | | Y | Y |
| 16 | 1ci | 3 | AO1 & AO2 | 5.1j | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations; concentration, moles, has volume & atom economy and tests mathematical skills. | | Y | Y |
| 16 | 1cii | 3 | AO1 | 5.1k | 5.1 Monitoring chemical reactions | This question has a focus on chemical calculations; concentration, moles, has volume & atom economy and tests mathematical skills. | | | |
| 17 | 1a | 1 | AO1 | 6.2d | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | |

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|--------------|-------|----------------|--------------|------------------------|-----------------------------------|---|---------------------------|-------|-------------------------|
| 17 | 1b | 1 | AO1 | 6.2a | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | |
| 17 | 1c | 2 | AO2 | 6.2d | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | |
| 17 | 1d | 1 | AO1 | 6.2h | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | |
| 17 | 1ei | 1 | AO1 | 6.2e | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | |
| 17 | 1eii | 2 | AO1 | 6.2e | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | |
| 17 | 1eiii | 1 | AO1 | 6.2e | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | |
| 17 | 1fi | 3 | AO1 | 6.2f | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | Υ |
| 17 | 1fii | 3 | AO1 & AO2 | 6.2f | 6.2 Organic chemistry | This question has a focus on polymerisation. | | | Υ |
| 18 | 1a | 3 | AO3 | 5.2a | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | Υ |
| 18 | 1bi | 1 | AO2 | 5.2a, 5.2g | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | Υ |
| 18 | 1bii | 1 | AO2 | 5.2a | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | Υ |
| 18 | 1biii | 2 | AO3 | 5.2f, 5.2g | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | Y |
| 18 | 1biv | 1 | AO3 | 5.2a, 5.2f, 5.2g | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | Y |
| 18 | 1bv | 2 | AO2 | 5.2e, 2.3h | 5.2 Controlling reactions | This question has a focus on rates of reaction. | | | Y |
| 19 | 1ai | 2 | AO2 | 4.1b | 4.1 Predicting chemical reactions | This question has a focus on the properties and reaction of Group 7 elements. | | | |
| 19 | 1aii | 1 | AO2 | 4.1a | 4.1 Predicting chemical reactions | This question has a focus on the properties and reaction of Group 7 elements. | | | |
| 19 | 1aiii | 1 | AO2 | 4.1b | 4.1 Predicting chemical reactions | This question has a focus on the properties and reaction of Group 7 elements. | | | |
| 19 | 1bi | 1 | AO1 | 4.1b, 2.2h | 4.1 Predicting chemical reactions | This question has a focus on the properties and reaction of Group 7 elements. | | | |
| 19 | 1bii | 2 | AO2 | 4.1b, 3.1b | 4.1 Predicting chemical reactions | This question has a focus on the properties and reaction of Group 7 elements. | | Y | |

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| 19 | 1biii | 1 | AO2 | 4.1b, 3.1a | 4.1 Predicting chemical reactions | This question has a focus on the properties and reaction of Group 7 elements. | | | |
| 20 | 1 | 4 | AO1 | 4.2b | 4.2 Identifying the products of chemical reactions | This question has a focus on tests to identify aqueous anions and aqueous cations. | | | Y |
| 21 | 1a | 2 | AO3 | 5.1b | 5.1 Monitoring chemical reactions | This question is about titrations. | | | |
| 21 | 1b | 2 | AO2 | 5.1c | 5.1 Monitoring chemical reactions | This question is about titrations. | | Υ | |
| 21 | 1c | 2 | AO2 | 5.1c, 3.1h | 5.1 Monitoring chemical reactions | This question is about titrations. | | Υ | |
| 22 | 1a | 2 | AO1 | 6.2k, 2.1f | 6.2 Organic chemistry | This question has a focus on compounds of carbon and fractional distillation. | | | |
| 22 | 1b | 1 | AO2 | 6.2a | 6.2 Organic chemistry | This question has a focus on compounds of carbon and fractional distillation. | | | |
| 23 | 1a | 2 | AO1 | 5.3b | 5.3 Equilibria | This question has a focus on chemical equilibria and also involves a percentage yield calculation. | | | |
| 23 | 1b | 2 | AO2 | 5.1h | 5.1 Monitoring chemical reactions | This question has a focus on chemical equilibria and also involves a percentage yield calculation. | | Y | |
| 23 | 1c | 6 | AO1 & AO3 | 5.3c | 5.3 Equilibria | This question has a focus on chemical equilibria and also involves a percentage yield calculation. | LoR Question | | Y |
| 24 | 1a | 2 | AO1 | 6.1g | 6.1 Improving processes and products | This question has a focus on manufacture of salts used as fertilisers, rates of reaction and tests mathematical skills. | | | |
| 24 | 1bi | 2 | AO1 | 5.2c, 5.2d | 5.2 Controlling reactions | This question has a focus on manufacture of salts used as fertilisers, rates of reaction and tests mathematical skills. | | | |
| 24 | 1bii | 2 | AO1 | 5.2c, 5.2d | 5.2 Controlling reactions | This question has a focus on manufacture of salts used as fertilisers, rates of reaction and tests mathematical skills. | | | |

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| 24 | 1ci | 4 | AO1 | 6.1h | 6.1 Improving processes and products | This question has a focus on manufacture of salts used as fertilisers, rates of reaction and tests mathematical skills. | | | |
| 24 | 1cii | 2 | AO2 | 5.1g, 3.1l | 5.1 Monitoring chemical reactions | This question has a focus on manufacture of salts used as fertilisers, rates of reaction and tests mathematical skills. | | Y | |
| 25 | 1a | 2 | AO2 | 6.3d | 6.3 Interpreting and interacting with earth systems | This question has a focus on the greenhouse effect and climate change. | | | |
| 25 | 1b | 2 | AO3 | | 6.3 Interpreting and interacting with earth systems | This question has a focus on the greenhouse effect and climate change. | | | |
| 26 | 1a | 1 | AO3 | 6.1p | 6.1 Improving processes and products | This question has a focus on the corrosion of metals. | | | Y |
| 26 | 1b | 3 | AO3 | 6.1p | 6.1 Improving processes and products | This question has a focus on the corrosion of metals. | | | Y |
| 27 | 1a | 2 | AO1 | 6.1a, 6.1b | 6.1 Improving processes and products | This question has a focus on the extraction of metals and electrolysis. | | | |
| 27 | 1bi | 1 | AO2 | 6.1b, 3.1b, 3.4d | 6.1 Improving processes and products | This question has a focus on the extraction of metals and electrolysis. | | | |
| 27 | 1bii | 1 | AO1 | 6.1b, 3.4d | 6.1 Improving processes and products | This question has a focus on the extraction of metals and electrolysis. | | | |
| 27 | 1c | 2 | AO2 | 6.1b | 6.1 Improving processes and products | This question has a focus on the extraction of metals and electrolysis. | | | Υ |
| 28 | 1a | 2 | AO2 | 6.1p, 3.1b | 6.1 Improving processes and products | This question has a focus on the rusting of iron. | | | |
| 28 | 1b | 6 | AO1 & AO2 | 6.1p, 3.1h | 6.1 Improving processes and products | This question has a focus on the rusting of iron. | | Υ | |